

IAGSA Member Self-Assessment Questionnaire

Company Name:Geo Data Solutions GDS	
Location: Laval	
Date of Assessment: January 2018	
Assessment Questionnaire completed by: Sale	eh Moussaoui, Isabelle D'Amours and Benoit Luneau for
Exactair	
Key Management Personnel	<u>Position</u>
Saleh Elmoussaoui , GDS	Operation manager
Isabelle D'Amours,GDS	General Manager
Benoit Luneau, Exact Air	Directeur des opérations /Chef Pilote
Total # Employees:	9

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Planning – All Operations			
Title	IAGSA Recommendation	Compliance Level	Explanation of Compliance
Survey Planning	The following is a list of IAGSA I when planning airborne survey of		es which all members should take into account of type of survey or terrain.
	Prior to commencing a survey, do you conduct a detailed risk assessment which identifies	⊠ Always	Geo Data Solution Project Safety Plan P. 8 Evaluation is made and presented in the survey proposal, including drape calculation.
	the safe survey height?	☐ Sometimes ☐ Never	proposal, including drape calculation.
	B:		
	Prior to conducting a survey do you establish a crew rotation schedule which	Alwaya	Rotations are usually agreed upon on a need to basis according to employee needs and aircraft provider.
	considers factors such as remoteness of site, severity of		provident
	climate, quality of accommodation, food and personal considerations?	☐ Never	
	Do you have a minimum temperature limit for cold		For Navajo operations , min -27 °C For King Air operations, min -33 °C
	weather operations?	Sometimes	
		☐ Never	
		□ N/A	



Do you limit the use of aircraft heaters or air-conditioning in the interest of "clean" data?	☐ Always☒ Sometimes☐ Never	A/C and electrical heat in the King Air are limited but the bleed air heat is enough even at -33°C
Do you require the use of oxygen for all aircrew for survey flights or portions thereof conducted above 10,000 feet ASL?	☐ Always☑ Sometimes☐ Never	If survey required to fly at or above 10 000 feet we will provide oxygen to flight crew member and if flight above 13 000 feet is required, we will provide to all person on board unless the aircraft is pressurized
Do you have a drug and alcohol policy?		GDS Employee Guide section 23
Are aircrew members required to wear long trousers or a flight suit, closed shoes, have gloves available and clothing appropriate for the environmental conditions?	✓ Always☐ Sometimes☐ Never	GDS Health and Safety document page 2
For fixed wing surveys, is a risk assessment conducted to determine whether or not	☐ Always ☐ Sometimes	The aircraft flown does not required the flight crew to wear helmet



	helmets should be worn by the flight crew members?	□ Never☑ N/A	
	For helicopter surveys, are the flight crew members required to wear a flight helmet?	✓ Always☐ Sometimes☐ Never	Pilot
	Are flight crew members paid or given an incentive based upon hours or kilometers flown?	☐ Always☐ Sometimes☑ Never	GDS contracts pilots based on daily salary, whether flying occurs or not. No production incentive included on contract.
Emergency Response Planning	Do you develop project specific emergency response plans for each project?	☑ Always☐ Sometimes☐ Never	GDS Project Health and Safety plan, P. 3
	Does your company have an overall crisis management plan?		The aircraft operator, Exact air has one called "Plan d'intervention d'urgence" wich mean in English emergency safetay plan.
Flight Following	Do you operate a satellite tracking system on all aircraft?		The Operator of aircrafts installed tracking system in all survey machines and are always working and



		☐ Sometimes ☐ Never	verified by GDS. Tracking password and website indicated in PSP
	Is the position reporting frequency of the tracking system set to 2 minute intervals as a minimum?		every 2 minutes
Single Pilot Only Surveys	Do you conduct single Pilot Only Surveys (no equipment operator)?	☐ Always☐ Sometimes☒ Never	On King Air always 2 pilots in survey On Navajo, usually 2 pilots or pilot system operator occasionally.
	If so, does the Pilot have equipment operation duties in addition to those normally associated with flying the aircraft?	☐ Always☐ Sometimes☐ Never☑ N/A	
	Are additional risks associated with single pilot only operations detailed in the risk assessment?	☐ Always ☐ Sometimes ☐ Never	



		⊠ N/A				
	Operating Standards					
Minimum safe survey speeds	Are minimum safe survey speeds for single engine aircraft calculated at 130% of clean stall speed (Vs)?	☐ Always ☐ Sometimes ☐ Never	n/a We don't operate single engine aircrafts			
	Are minimum safe survey speeds for Multi-engine aircraft: 110% of best single engine rate of climb speed (Vyse), or minimum safe single engine speed (Vsse, if published)?		Flying speed is standard and fixed in our proposals Navajo 5% drape 260 km/h (145 knots) King Air 5% drape 150 knots speed			
Minimum Fuel Standard	Is fuel planning for survey flights based upon 110% of planned consumption?	☐ Always☐ Sometimes☑ Never	VFR flight rules are followed at any time. (30 minutes extra for daytime and 45 minutes for night time). Extra fuel can be added depending on environment and contingencies.			
	Is minimum reserve fuel calculated as 30 minutes for fixed wing and 20 minutes for helicopter at normal cruise consumption rates?		In remote area we go up to 1 hour fuel reserve when necessary to assure safety. (ExactAir standard)			



	Do planned minimum fuel reserves consider site specific contingencies?		Every survey contract is evaluated with possible alternate airport in case of emergency, weather and runway closure to assure a safe landing at destination or alternate with a fuel reserve to assure the safety of every flight.
Flight and Duty Times	Are the following Flight & Duty Times adhered to?		
Single Pilot Operation Maximum Flight Times	A maximum of 8 hours flight time per day.	Always	When IFR flights only.
		☐ Never	
	A maximum of 5 hours flight time on survey per day	⊠ Always	Single pilot operation is limited to one flight a day and airplanes used by ExactAir have 5 hours fuel
	(excluding transit time)	☐ Sometimes	endurance maximum.
		☐ Never	
	A maximum of 40 hours flight time in any 7 consecutive day	Always	We are allowed to 60 hours in 7 days but rarely go there.
period			
		☐ Never	
	A maximum of 100 hours flight time in any consecutive 28 day period.	☐ Always	We are allowed to 150 hours in 30 days but rarely go there.



		☐ Never	
	A maximum of 1000 hours in any consecutive 365 day		Normally pilot fly around 600 to 700 hours per year maximum.
	period.	Sometimes	
		☐ Never	
	If extensions to the single pilot flight times are used has the	☐ Always	
	extension criteria recommended by IAGSA been	Sometimes	
	met?	☐ Never	
		⊠ N/A	
Dual Pilot Operations	A maximum of 10 hours flight		Dual pilot operation is limited to two flights a day
Maximum Flight times	time per day.	Sometimes	and airplanes used by ExactAir have 5 hours fuel endurance maximum.
		☐ Never	
	A maximum of 8 hours flight time on survey (excluding		Dual pilot operation are limited to two flights a day and airplanes used by ExactAir have 5 hours fuel
	transit time).	Sometimes	endurance maximum.
		☐ Never	



	A maximum of 45 hours flight time in any consecutive 7 day period.	☐ Always☑ Sometimes☐ Never	60 hrs per 7 days but rarely go there
	A maximum of 120 hours flight time in any consecutive 28 day period.	☐ Always☑ Sometimes☐ Never	We are allowed to 150 hours in 30 days but rarely go there.
	A maximum of 1200 hours flight time in any consecutive 365 day period.	x Always Sometimes Never	Normally pilot fly around 600 to 700 hours per year maximum.
Maximum Duty Times	The maximum duty time in any one day shall not exceed 14 hours	☑ Always☐ Sometimes☐ Never	We are allowed to 15 hours but we use it only for unforeseen operational circumstances.
	The pilot shall have a minimum of 2 days rest within a 14 day period. These may be taken separately or together. If taken separately, one day rest shall be defined as 30 consecutive hours free from duty.	☐ Always☑ Sometimes☐ Never	We respect the 3 days in 30 day period minimum during contract but weather always gives more! Between contracts, pilots are often completely off. We also have the ops. Spec to go 42 days ON with 5 consecutives days off before and after but as said earlier, weather always gives days off.



Emergency Beacon / Radio	Is each aircrew member required to carry on their person essential survival items including: a personal locator beacon means to start a fire, knife and a signal mirror?	✓ Always☐ Sometimes☐ Never	Aircraft complete survival and first aid kit adapted to the terrain and time of year. As to be verified and noted on GDS Project Safety Plan with each project.
Fuel Quality Control – Storage Tanks	adequacy of this quality control at there a procedure in place to unknown or questionable:	and take all available m	naller centres. The crew must determine the neans to ensure against boarding contaminated fuel.
Check that Fuel Quality Control Check and Delivery documents are current and available.	☐ Always☑ Sometimes☐ Never	When conditions permit it	
	Check that the fuel servicing vehicle / facility is identified with the fuel type handled.	✓ Always☐ Sometimes☐ Never	Each pilot checks before refueling and stay with the fuel operator during refueling as describe in the company Operation Manuel
	Check that the facility is clean and maintained.	✓ Always☐ Sometimes☐ Never	Each pilot check before refueling as describe in the company Operation Manuel



Check that bonding wires and connections are in good condition.	✓ Always☐ Sometimes☐ Never	Each refueling as describe in the company Operation Manuel
Check that filter systems are in place and date of last element replacement.	☐ Always☑ Sometimes☐ Never	At the beginning of each contract
Check that a sample is clear and bright downstream of the filter.	☐ Always☑ Sometimes☐ Never	When there is doubt on the fuel quality
Request or conduct a water test with paste or syringe and capsules.	☐ Always☑ Sometimes☐ Never	When there is doubt on the fuel quality
Check that a sample from the low point of the tank is clear bright and free of water. If there is no low point water	☐ Always ☐ Sometimes	When there is doubt on the fuel quality



	drain, do a dip of the tank using water paste.	Never	
Fuel Quality Control - Drums	When using drummed fuel are the	here procedures in plac	ce to ensure the following requirements?
	Verify the expiry date of the drums.		Made by pilots and crew leader on site as describe in the company Operation Manuel
		Sometimes	
		☐ Never	
	A "go no-go" filter be used for all refueling from drums.		Installed on all pumps as describe in the company Operation Manuel
		Sometimes	
		☐ Never	
	All drum fuel is visually checked for clarity and color and water tested with paste or fuel syringe and capsules		Each time before refueling as describe in the company Operation Manuel
		Sometimes	
	before use.	☐ Never	
	Only clearly branded drums with both seals intact are be		Each time before refueling as describe in the company Operation Manuel
	used unless the pilot knows the "history" of the drum since	Sometimes	
	the seals were broken and retests the fuel for	☐ Never	
	contamination before use.		



Aircraft sump drains be checked before the first flight of the day and after each refueling.	✓ Always☐ Sometimes☐ Never	Yes, as describe in the company Operation Manuel
Drums are stored on their sides, clear of the ground with bungs horizontal in an area not subject to flooding. Undercover storage should be	☑ Always☐ Sometimes	Yes, as describe in the company Operation Manuel
considered if drum stock are to be kept for a long time.	∐ Never	Vac as describe in the company Operation
When not in use, fuel pumps are protected from water and other contamination.	☑ Always☐ Sometimes☐ Never	Yes, as describe in the company Operation Manuel pump is always placed in a protection case
Bungs should be sealed and the drum placed on its side for short term storage (i.e. overnight) of a partially filled drum.	✓ Always☐ Sometimes☐ Never	Yes, as describe in the company Operation Manuel



Night Surveys	Typically, survey flights are conducted at low heights in day VMC, but if the low height is removed coupled with a smooth air requirement, such as for gravity surveys, it may be desirable to conduct night flights. Such flights can be conducted safely as long as there are adequate procedures to prevent a "controlled flight into terrain" CFIT accident. Are procedures in place to ensure the following requirements:			
Are night surveys flown at least 1000 feet above all obstacles within the operational area and a 10 nautical mile buffer around the operational area? Does the operational area include the maneuvering area for line turns and lead-ins? Is a VMC reconnaissance flight performed in each block?	☐ Always ☐ Sometimes			
	operational area include the maneuvering area for line	□ Never☑ N/A		
		Always		
		Sometimes Never		
		⊠ N/A		
ra tu a	During survey flights, are radios and transponders turned on and selected to the appropriate ATC or flight service frequencies.		Transponders are turned off but radio stay on at all time and communications are done at the end of	
		Sometimes	the lines.	
		Never		



	Additionally, equipment permitting, common air to air and emergency frequencies (121.5MHz) should also be monitored.		
Turning Radius			nt margin above the stall speed, however in a steep varning and a stall in the turn at low level will likely
	Are all turns at low level limited to a maximum angle of bank of	⊠ Always	Climbs or descents are permitted during the turns depending on the terrain out of the lines. Pilots
	30 degrees and be done at a constant altitude. Are climbs or	☐ Sometimes	are incited to follow terrain at the survey height and low level turn at high angle prohibited in the
	descents allowed to be carried out during the turn?	☐ Never	company operation manual
	Towed	Geophysical Arra	ays
Towed Geophysical Arrays – All aircraft types	This section applies to all airborn rotary or fixed wing aircraft.	ne surveys utilizing ged	ophysical arrays suspended below and/or towed by
	Do you operate towed geophysical arrays?	☐ Yes	
		⊠ No	
	Does the towed array have an STC/LSTC, engineering order	_	
	or other similar certificate or statement describing array	Yes	
		│	



specifications and flight test data? Is there an Operating Manual for each array? Does the Operating manual identify the maximum safe operating airspeed for the array? No N/A Does the Operating Manual contain a parts list and maintenance manual containing the critical design specification for all parts and elements of the array? Does the Operations Manual contain a pre-flight checklist? Does the Operations Manual contain a pre-flight checklist? No N/A				
for each array? Yes No N/A			N/A	
Does the Operating manual identify the maximum safe operating airspeed for the array? Does the Operating Manual contain a parts list and maintenance manual containing the critical design specification for all parts and elements of the array? Does the Operating Manual contain a pre-flight checklist? No No No Yes No No No No No No No No No N			Yes	
Does the Operating manual identify the maximum safe operating airspeed for the array? □ No □ N/A □ No □ N/A □ Does the Operating Manual contain a parts list and maintenance manual containing the critical design specification for all parts and elements of the array? □ No □ No □ No □ No □ No □ No □ N/A □ Yes □ No □ N/A □ Yes □ No □ N/A			No	
identify the maximum safe operating airspeed for the array? No N/A			N/A	
Does the Operating Manual contain a parts list and maintenance manual containing the critical design specification for all parts and elements of the array? Does the Operations Manual contain a pre-flight checklist? No Yes No No Yes	identify the m	aximum safe	Yes	
Does the Operating Manual contain a parts list and maintenance manual containing the critical design specification for all parts and elements of the array? Does the Operations Manual contain a pre-flight checklist? □ Yes □ No □ Yes □ No		speed for the	No	
contain a parts list and maintenance manual containing the critical design specification for all parts and elements of the array? □ No □ N			N/A	
containing the critical design specification for all parts and elements of the array? □ No □ N/A □ No □ N/A □ No □ N/A □ Ves □ No □ N	contain a par	ts list and	Yes	
elements of the array? Does the Operations Manual contain a pre-flight checklist? Yes No	containing the	e critical design	No	
contain a pre-flight checklist? Ves No			N/A	
			Yes	
□ N/A			No	
			N/A	



	Does the Operations Manual contain a schedule for routine preventative maintenance, recorded inspections and testing?	☐ Yes ☐ No	
		⊠ N/A	
	Is there a procedure in place to ensure that all required	☐ Yes	
	maintenance, inspections and testing are up to date prior to	☐ No	
	job start?	⊠ N/A	
	Is all maintenance performed by a qualified person endorsed	☐ Yes	
	by the manufacturer or operator?	☐ No	
		⊠ N/A	
Towed Geophysical Arrays – Rotary Wing Aircraft	Has the cable weight and length been determined by an aeronautical engineer as to	☐ Yes	
	minimize the potential for cable recoil into main and tail rotors following the loss of load?	☐ No	
		⊠ N/A	
	Is there a weak link incorporated into the load bearing cable?	Yes	
	boaring oddio.	☐ No	



		⊠ N/A	
	Is the weak link located as close as possible to the attachment hook of the helicopter?	☐ Yes ☐ No	
	Tioliooptor:	⊠ N/A	
	Has the breaking strain of the weak link been specified by an aeronautical engineer?	☐ Yes	
		□ N/A	
	Is the maximum towed array airspeed and VNE (Velocity Never Exceed) placard placed on the aircraft instrument	☐ Yes	
	panel in the Pilot's view?	□ N/A	
	Does the cargo hook arrangement allow the pilot to jettison the load without	☐ Yes	
	removing his/her hands from the flight controls? Do procedures include the	□ No □ N/A	
	requirement to test the	<u> </u>	



	helicopter cargo hook release mechanism?		
Towed Geophysical Arrays – Fixed Wing	Is the aircraft fitted with a shearing mechanism which can cut the tow cable when the array needs to be jettisoned?	☐ Yes☐ No☑ N/A	
	Does the tow cable have a breaking strain which minimizes damage to the aircraft in the event the array snagged with ground objects?	☐ Yes ☐ No ☑ N/A	
	Geophysic	al Survey Flight T	raining
Training and Experience – All Operations	Does your training program contain a syllabus for low level geophysical flight training?		See Exact air MANOP for details
	Does the Pilot training syllabus reflect the IAGSA training guidelines?		Training is usually done by an experienced pilot which will confirm the go-ahead to the trainee pilot only when he is ready
	Are there documented criteria to assess Pilot competency?		Detailed training reports and PPC or VCP reports.



Simulator Training	In addition to the training in the actual aircraft, do pilots, where practical, undergo simulator training in a type specific simulator representing the aircraft being flown on survey? If so, at what frequency?	☐ Always☑ Sometimes☐ Never☐ N/A	If required, some simulator hours are done on a similar type of the aircraft used.
	Overwate	r and Offshore Su	ırveys
Minimum requirements for Over water and Off Shore Surveys			and off shore surveys flown in both fixed wing and
Training – Overwater & Offshore Surveys	Is Underwater Escape Training completed within the preceding three years before undertaking the over water or offshore survey.	☐ Always☐ Sometimes☐ Never	N/A ,no surveys has been conduct offshore yet Exactair comments
	Are Ditching & Emergency Evacuation Procedures reviewed, crew members thoroughly briefed and simulated training to be conducted at the work site prior to the start of all over water or offshore work. This review should include a review of general emergency procedures that could	☐ Always ☐ Sometimes ☐ Never	N/A ,no surveys has been conduct offshore yet Exactair comments



	potentially lead to a ditching and a discussion on the significance of sea state/wave height on ditching.		
Training - Off Shore Surveys	In addition to the above items, the	ne following are to be in	ncluded in offshore training:
·	Does Initial Training consist of a minimum of 10 hours training conducted by a pilot who has a minimum of 100 hours Offshore experience?	☐ Yes ☐ No	N/A ,no surveys has been conduct offshore yet Exactair comments
	Does Recurrent Training consist of a minimum of 5 hours training conducted annually by a pilot with the same qualifications as for the initial training: or prior to the start of an Offshore survey if pilot has completed the initial training but has not flown Offshore for more than 90 days?	☐ Yes ☐ No	N/A ,no surveys has been conduct offshore yet Exactair comments
	Alternatively, the above experience requirements may be waived if the Operator has in place a competency based training program which includes Offshore operations.		N/A ,no surveys has been conduct offshore yet Exactair comments



Type of Aircraft –	For an over water/offshere surve	w in	an area with hare	h conditions where the odds of surviving a ditching
Over water /				phasis must be placed on choosing an aircraft that
Offshore Operations				raft criteria may be somewhat less stringent in less
Offshore Operations				
	harsh conditions where the odds	oua	Successiul diteriii	ng and rescue are good.
	For any survey that is over			We only operate multi engines aircraft able to fly
	water or offshore in an area			back to the base after an engine failure.
	where rescue is not likely to			back to the base after all engine failure.
	occur within an anticipated			
	acceptable exposure time	\boxtimes	Always	
	and/or where anticipated sea		•	
	states would make a		Sometimes	
	successful ditching unlikely, is			
	the use of a multi engine	Ш	Never	
	aircraft with performance			
	characteristics such that in the			
	event of an engine failure			
	_			
	during an over water survey it			
	can climb from survey height to 500 feet and return to shore			
	or during an offshore survey it			
	can climb from survey height			
	and maintain prolonged flight			
	on the remaining engine(s) to			
	return to a suitable airport at			
	the minimum IFR altitude			
	utilized?			



	Are single engine piston aircraft used for over water/offshore surveys?	Always Sometimes Never	
Aircraft equipment – Offshore	Are aircraft equipped with at least the following gyroscopic instruments, each of which must be independent of the others: 2 x attitude indicator; 2 x heading indicator; 2 x turn and slip indicator or turn coordinator?	Yes No	Aircraft are equipped to do IFR crew operation and are used in 703 charter operation between survey contracts.
	If a second pilot is to be part of the crew, is there a complete second set of basic flight instruments (attitude indicator, gyroscopic heading indicator, turn and slip or turn coordinator airspeed, altimeter, vertical speed) installed at the co-pilot's seating position?	Yes No	Aircraft are equipped to do IFR crew operation and are used in 703 charter operation between survey contracts.
	Are there at least two (2) independent power sources to drive the gyroscopic instruments?		Aircraft are equipped to do IFR crew operation and are used in 703 charter operation between survey contracts.



- this may mean two vacuum pumps with all air driven gyroscopes or a mixture of air driven and electric gyroscopes provided loss of one power source leaves operational one set of three gyroscopic instruments (attitude, heading and turn rate indicators)		
Is there a radio or radar altimeter with a means of alerting the crew when height above the water falls below a minimum safety height selected by the crew? Is there a means of testing the alerting device prior to flight?		Radar Alt can be tested on the ground and in flight during each flight
Is there a minimum of one instantaneous vertical speed indicator (IVSI) to provide an instant alert of descent	☐ Yes ⊠ No	
Do you require the use of weather radar where		Radar or stormscope



	thunderstorms are present or could be expected?	Sometimes Never	
	Are Rotary wing aircraft equipped with floatation aids such as "pop-outs floats"?	Always Sometimes Never	When operations overwater at low altitude requires
Emergency Equipment – Offshore Surveys	An upper torso restraint system, with a preference for a four point harness, for each crew member	Yes No	Aircraft are equipped to do IFR crew operation and are used in 703 charter operation between survey contracts.
	Are aircraft equipped with a 406 MHZ ELT?	Yes No	Automatic ELT fixed in the tail on each plane used for survey
	Is the crew provided a covered life raft with a self erecting canopy that is equipped with a 406 MHZ ELT and normal emergency survival equipment? Does raft should include an inflatable floor for cold water operations?	Yes No	n/a
	Are constant wear dual chamber life vests that contain		n/a



	an ELT aELT/EPIRB, flares and a signal mirror, worn by each crew member?	☐ Yes ☐ No			
	Are immersion/exposure suits worn if water and air temperatures warrant?	☐ Yes ☐ No	n/a		
	Are all helmets and headsets fitted with double disconnect cords?	☐ Yes ☐ No	n/a		
Weather – Offshore Surveys	Are Offshore survey flights conducted under VMC with minimums of 5 miles visibility and 1000 foot ceiling in the survey area?	☐ Yes ☐ No	n/a		
	Is a thorough weather briefing solicited (if available) and does it should include sea state/wave height and wind maximums in the survey area?	☐ Yes ☐ No	n/a		
	Additional Training Requirements				
Fire Extinguisher Training	Do all crew members on survey flights, including equipment operators, receive annual training in the use of		Pilots receive it with Exact air annual training and they transmit it to operators.		



II.				
	fire extinguishers in fighting in flight fires?			
Resource Management Training t	Is Survey Crew Resource Management training provided to all crew members assigned to survey operations including: geophysicists; pilots; equipment operators; maintenance engineers; field technicians and field support staff at intervals not exceeding three years?	⊠ Yes □ No	See Exact air MANOP	
Flight Performance Monitoring				
Performance Monitoring	Is performance parameters, including aircraft speed, height above terrain and drape, periodically reviewed using data collected during surveys?	✓ Always✓ Sometimes	Speed, height and drape are part of standard daily data QC.	
		Never		
5	Is the frequency of review such that any discrepancies on a particular survey or by a particular pilot can be identified as early as possible?		Crew members are advised before the next flight, if there is any discrepancy	
F		Sometimes		
		Never		